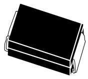
NEW

**CMSH1-20ML**
**CMSH1-40ML**

**SCHOTTKY BARRIER RECTIFIER**
**1.0 AMP, 20 & 40 VOLTS**

Central™
Semiconductor Corp.

LOW $V_F$



**SMA CASE**

**FEATURES:**

- EXTREMELY LOW FORWARD VOLTAGE DROP
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- LOW COST

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSH1-20ML Series are Surface Mount Silicon Schottky Rectifiers designed for applications were extremely low forward voltage drop is required. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

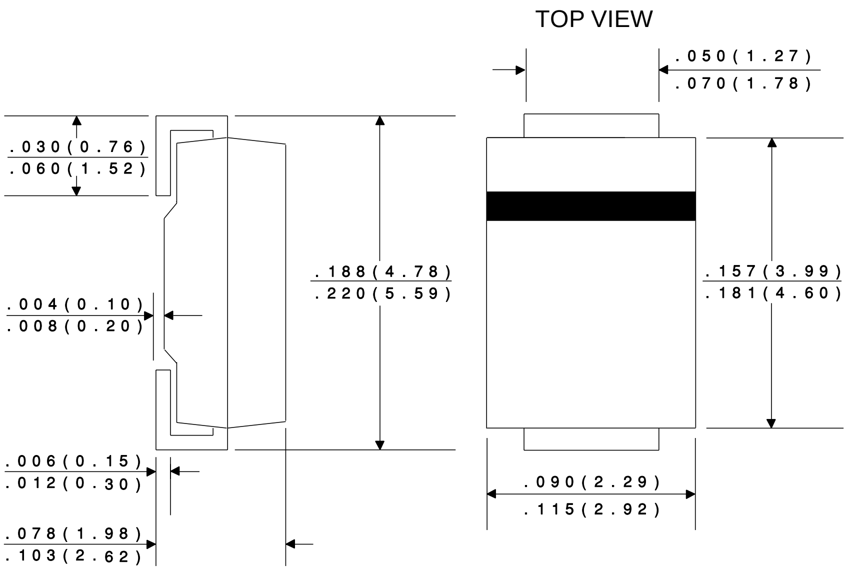
**MAXIMUM RATINGS:** ($T_A$=25°C unless otherwise noted)

| | SYMBOL | CMSH1-20ML | CMSH1-40ML | UNITS |
|---|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 20 | 40 | V |
| DC Blocking Voltage | $V_R$ | 20 | 40 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 14 | 28 | V |
| Average Forward Current | $I_O$ | 1.0 | | A |
| Peak Forward Surge Current (8.3ms) | $I_{FSM}$ | 30 | | A |
| Operating and Storage Junction Temperature | $T_J, T_{stg}$ | -65 to +150 | | °C |
| Thermal Resistance | $\Theta_{JL}$ | 28 | | °C/W |
| Thermal Resistance | $\Theta_{JA}$ | 88 | | °C/W |

**ELECTRICAL CHARACTERISTICS:** ($T_C$=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| $I_R$ | $V_R$=Rated $V_{RRM}$ | | | 0.5 | mA |
| $I_R$ | $V_R$= Rated $V_{RRM}$, $T_C$=100°C | | | 20 | mA |
| $V_F$ | $I_F$=1.0A (CMSH1-20ML) | | | 0.38 | V |
| $V_F$ | $I_F$=1.0A (CMSH1-40ML) | | | 0.40 | V |

All Dimensions in Inches (mm).




| DEVICE | MARKING CODE |
|---|---|
| CMSH1-20ML | CS20ML |
| CMSH1-40ML | CS40ML |

R2